

**Docket No. 217 – Development and Management Plan Inspection**

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

**Date:** September 21, 2005

**Inspector:** Diana Walden and Lee Curtis

**Location:** 115 kV Underground Route

**Storm/**

**Rain Event:** The area received a rain event with localized downpours between 0.72" and up to 1.02" over 9/16-9/17 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction	- <b>Bethel Educational Park:</b> Grass is growing well in many locations but there were two small erosive gullies noted in the ROW sections. 9/21/05	-See erosion control section for specifics. 9/21/05
<b>Hoyts Hill Transition Structure</b>	-Active work was not noted here at the time of inspection. 9/21/05	- See erosion control and spill section for site specific information. 9/21/05
<b>Gallows Hill Road and Rt. 107, Redding</b>	-Crews are working in the manholes along Gallows Hill in preparation for pulling cable. 9/1-9/21/05 - Some work continues trenching along Rt. 107 but work had moved on from the Redding Country Club. 9/21/05	- Restoration efforts continue to be noted in locations. See erosion control and additional sections for more specific information. 9/21/05
<b>Rt. 58, Bethel</b>	- Trench/conduit installation was occurring along Rt. 58 in several locations including in the Putnam Park area. 9/21/05 - Site preparation continues on a stream cut that will take place near Sara's Way. Work will occur this week. 9/21/05	- See the erosion control and additional sections for more information. The preparation for the stream work looks good. 9/21/05
<b>Broad Street/ROW and Rt. 7, Norwalk</b>	- The jack and bore under the railroad on Broad St. is ongoing. 9/21/05	-Activities were fairly well contained here. 9/21/05

Areas of Inspection	Observation	Recommended Action
<b>Broad Street/ROW and Rt. 7, Norwalk</b>	<ul style="list-style-type: none"> <li>- Work continues along Broad Street near the overpass. Stockpiles are being stored in the ROW. 9/1-9/21/05</li> <li>- Nightwork continues in several locations along Rt. 7. 9/21/05</li> </ul>	<ul style="list-style-type: none"> <li>- See additional sections for more details. 9/21/05</li> <li>-See storage sections regarding concrete disposal for this work. 9/21/05</li> </ul>
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<ul style="list-style-type: none"> <li>- For the most part, silt fence has been well installed in most locations where the work is located adjacent to wetlands and soils are being handled appropriately. 9/21/05</li> <li>- Repairs and restoration efforts continue to be made and there are fewer issues each week. 9/21/05</li> </ul>	<ul style="list-style-type: none"> <li>- Continue to be proactive in maintenance as necessary. See below for site-specific issues. 9/21/05</li> </ul>
<b>Bethel Educational Park</b>	<ul style="list-style-type: none"> <li>- All disturbed areas continue to show very good grass growth including areas along the ROW. 9/21/05</li> <li>- The area noted on the northern part of the ROW has turned into a more substantial gully depositing sediment against the silt fence. 9/21/05</li> <li>- Another gully began near the southern caisson under the first row of silt fence and is depositing sediment at the second row. 9/21/05</li> </ul>	<ul style="list-style-type: none"> <li>- The area should be repaired and haybales should be staked at the top of grade to reduce velocity of flow. 9/21/05</li> <li>-The area should also be repaired and a more permanent fix should be investigated. 9/21/05</li> </ul>
<b>Hoyts Hill Riser Termination Structure (Off Rt. 58)</b>	<ul style="list-style-type: none"> <li>- Erosion controls are mostly in good shape here. Some foam insulation was left behind here and it should be removed. 9/15-9/21/05</li> <li>- A small oily spot was noted on the soil here due to a parked machine. 9/21/05</li> <li>- The contractor will ask the adjacent homeowner whether they would like their debris pile removed. 9/7-9/21/05</li> </ul>	<ul style="list-style-type: none"> <li>- Keep all areas of erosion control maintained. 9/21/05</li> <li>- The soil should be removed and disposed of. 9/21/05</li> <li>- The siting council suggested that NU could offer to remove the wood/debris for the owner. 8/25-9/21/05</li> </ul>

Areas of Inspection	Observation	Recommended Action
<b>Route 58</b>	<p>- Most catch basins near the work areas are being consistently placed with either haybales or fabric. 9/21/05</p> <p>- The BMPs in preparation for the stream cut at Sara's Way are well in place including spill pans for the pumps, haybale check dams, silt fence and sandbag dams. 9/21/05</p> <p>- At the storage area off Rt. 58 near the Putnam Park entrance, erosion controls were in place but see storage section for more details. 9/21/05</p> <p>-The silt fence at the storage area near Sunset Hill Road has been restored as recommended. The small area of disturbance outside the silt fence was still noticeable and should be restored when feasible. 9/21/05</p> <p>- Areas that have been mulched should be seeded and silt fence can then be removed when work will not return here. 9/7-9/21/05</p>	<p>-In general, contain slurry or mobile sediment to work areas and street sweep the road extent including the gutters, regularly. Place and maintain controls on all catch basins and inlets which may receive muds. 9/21/05</p> <p>- None at this time. 9/21/05</p> <p>- Keep all equipment within storage areas or install more fence here to accommodate them. Restore the area as necessary. 9/21/05</p> <p>- This includes the area north of the Sunoco station. 9/21/05</p>
	<p>- Crews were still working within the manholes on Gallows Hill Rd. preparing to pull cable. 9/21/05</p> <p>-The vault area near Longwood Dr. (#13) now has good grass growth. The areas near the ROW intersection and several residential areas are also well restored with grass growth. 9/21/05</p>	<p>-None at this time. 9/21/05</p> <p>- Continue to monitor and restore areas where work is complete or maintain fence in any areas not yet restored. Silt fence can be pulled from restored areas. 9/21/05.</p>
<b>Gallows Hill Road and Rt. 107 (Lonetown Rd)</b>		

Areas of Inspection	Observation	Recommended Action
<b>Route 107 and Gallows Hill continued</b>	<ul style="list-style-type: none"> <li>- Stone can be added to the pull off area at #116 to stabilize the area further before silt fence is pulled. This area had existing stormwater issues that are not a result of the project. 9/15-9/21/05</li> <li>- Silt fence repair or restoration of the original storage area is also recommended. 9/21/05</li> <li>- Most catch basins along Rt. 107 seem to have either haybales or fabric as protection measures in place. 9/21/05</li> </ul>	<ul style="list-style-type: none"> <li>- Place stone or seed and mulch in areas to be stabilized. 9/21/05</li> <li>- Continue to remain aware of containing mobile slurry and protecting catch basins and inlets left in place even when work moves past if there is still dried sediment in the roadway. 9/21/05</li> </ul>
<b>Broad Street and Rt. 7, Norwalk</b>	<ul style="list-style-type: none"> <li>- A soil stockpile from the roadwork is being kept in the ROW. Silt fence was placed here as recommended but some areas may need to be toed in. 9/15-9/21/05</li> <li>-Remove any project related debris from the ROW. 9/1-9/21/05</li> <li>-Catch basins were protected with haybales here as recommended. 9/21/05</li> <li>- The jacking and receiving pits off Broad St. are well contained. 9/21/05</li> <li>-Nightwork on Rt. 7 continues. No issues were noted leftover during the day inspection. 9/21/05</li> </ul>	<ul style="list-style-type: none"> <li>-Maintain silt fence as needed. 9/15-9/21/05</li> <li>- Perform regular “good housekeeping” to remove leftover materials and clean up the workspace. 9/1-9/21/05</li> <li>- Continue to maintain and protect catch basins. 9/21/05</li> <li>- None at this time. 9/21/05</li> <li>- The vac truck approach used at night is a very effective means of handling the muds. Continue to utilize consistently.</li> </ul>
Contaminated Soils	<ul style="list-style-type: none"> <li>- Contaminated soil is being stored and labeled separately from that considered “background polluted”. Contaminated soils are eventually brought off site to an O&amp;G facility in Bridgeport. Water from contaminated soils are sent to frac trucks and tanks. Occasionally, soils are being stored temporarily at Redding Yard until they are trucked to Bridgeport or the landfill. 9/21/05</li> </ul>	<ul style="list-style-type: none"> <li>- All soils appear to be handled appropriately. 9/21/05</li> <li>- It has been determined that the Redding landfill will use all soils from the roadways in Redding that are considered clean, (based on acceptable RSR levels), as daily cover.</li> </ul>

Areas of Inspection	Observation	Recommended Action
Adjacent Wetlands and Waterways	<p>-Preparation for the stream cut near Sara's Way off Rt. 58 is underway. The stream was being flumed in the work section with several sandbag dams in place. Silt fence and haybale check dams for velocity dissipation were also noted here. 9/21/05</p> <p>- The work section will be dewatered to a settling tank and then released downstream. Fish and aquatic organisms will be captured and moved to the extent practicable. 9/21/05</p> <p>- Drip pans were also constructed under each pump appropriately. 9/21/05</p>	<p>- None at this time, the preparation looks very good Continue to follow the plan approved by the ACOE. 9/21/05</p>
Staging, Storage, and Parking Areas	<p>- The concrete storage area for <b>Rt. 7</b> work near the Merritt Parkway cloverleaf is under discussion and contractors are working to increase controls here. 9/15-9/21/05</p> <p>- However, after daywork in the are(unrelated to the 115kv) similar issues were noted with washout entering a nearby inlet on the road. 9/21/05</p> <p>- In <b>Redding Town Yard</b>, soil excavate is only temporarily stored here until it can be trucked for disposal in the O&amp;G facility in Bridgeport or the Redding landfill.</p> <p>Additional controls have been installed at the Redding Yard in an effort to control the concrete washout area. Check dams were elongated with more silt fence and haybales and effectively trap water discharging from the outlet. 9/15-9/21/05</p> <p>- At the storage area off Rt. 58 near the Putnam Park entrance, things were contained but the yard could use some general cleanup. 9/15-9/21/05</p>	<p>- Al though this washout is used for other O&amp;G projects in the area, it still needs to be reinforced and controlled to the same standards as the 115kV if this project uses it. The exact area in use is being determined. 9/15-9/21/05</p> <p>- None at this time, continue to maintain the controls as needed. 9/21/05</p> <p>-Continue to maintain fence and treat it as limits of work and storage. 9/15-9/21/05</p>

Areas of Inspection	Observation	Recommended Action
	<ul style="list-style-type: none"> <li>- The silt fence at the yard at the intersection of Rt. 58 and Sunset Hill Rd was repaired. The tracked area outside the fence was still noticeable. 9/21/05</li> <li>- The Redding CC storage area fence was restored as recommended. 9/21/05</li> </ul>	<ul style="list-style-type: none"> <li>- Continue to maintain fence and treat it as a limit of work. Vehicles should stay within the fenced areas. 9/21/05</li> <li>-None at this time. 9/21/05</li> </ul>
State species of concern, threatened and endangered species	<ul style="list-style-type: none"> <li>- No species of concern are located in the areas of construction.</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> </ul>
Vegetative clearing limits (including trees to save or danger trees noted)	<ul style="list-style-type: none"> <li>- Mulching of bare areas is ongoing and should continue and areas should be seeded as necessary, especially the vault areas as they are the largest disturbance. When the areas are mulched and seeded, silt fence can be removed where work will not return. 9/7-9/21/05</li> <li>-Vault #13, the ROW area and other restored locations along Gallows Hill had good regrowth. 9/21/05.</li> </ul>	<ul style="list-style-type: none"> <li>- The D&amp;M plan requires that disturbed areas to be left for more than 21-30 days before work returns here should be temporarily stabilized with mulch or seed within 7-14 days.</li> <li>- Continue to send restoration crews out in time with D&amp;M requirements and seed mulch areas where needed. 9/21/05.</li> </ul>
Dewatering	<ul style="list-style-type: none"> <li>- Almost all dewatering discharge along the route is being directed to frac trucks or tanks due to concerns about the polluted soils. 7/21-9/21/05</li> <li>-Several tanks for dewatering are being stored at the Putnam Park storage area. 9/15-9/21/05</li> </ul>	<ul style="list-style-type: none"> <li>- It appears that the storage and disposal solution will continue due to concerns about the background pollutants in soils, even in those not considered contaminated. 7/21-9/21/05</li> <li>It may be important to determine total daily volumes of water removal and evaluate whether this is a stress to the watershed or not a significant impact. 7/21-9/21/05</li> </ul>
Blasting	<ul style="list-style-type: none"> <li>- No blasting is occurring in any areas at this time.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time.</li> </ul>

Areas of Inspection	Observation	Recommended Action
Spills and Material Storage	<p>- A report of any leaks or spills that reach the ground and occur during the week should be provided to BSC from internal project inspectors 6/15-9/21/05</p> <p>- In general catch basins, inlets and swales should continue to consistently be protected especially in any area with sawcutting activities. This is being done very well at this point. 9/21/05</p>	<p>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. Check equipment status on a regular basis and keep spill kits on hand. Report spills immediately, even if they are being controlled.</p> <p>- The contractors should remain vigilant about securing and handling fuel and material containers.</p> <p>- Equipment and materials should not be stored in wooded areas unless it is designated for storage.</p>
Additional Observations		

**Next likely scheduled inspection:**

Thursday, September 29, 2005

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Inspector's Signature:**

Diana Walden



**115kV (Gallows Hill Rd):** The photo on the left shows good regrowth of vegetation near the intersection of the ROW with Gallows Hill. Photo on the right shows an area where silt fence could be removed as the area is stabilized. (9/21/05)



**115kV (Rt. 58)** The storage area near Putnam Park is still well contained in silt fence with new stockpiles of stone. Some cleanup here is still recommended. (9/21/05)





The silt fence at the Sunset Hill Rd. storage area had been repaired and is in good shape. The photo on the right shows an adjacent area where vehicles had caused disturbed soil. This area should be restored or enclosed in the silt fence. (9/21/05)



115kV (Rt. 58 Stream cut): View of the preparation for the open cut of the stream near Sara's Way. The section of the stream has been flumed and will be dewatered. (9/21/05)





Photo on the left shows good containment of each pump to prevent any fuel leaks. A wooden pan lined with plastic was placed under each. Photo on the right shows the flume entrance and the sandbag dam. (9/21/05)



View of the downstream area where the flume outlets. Haybale check dams and sandbags were placed in the stream channel to reduce velocity at the discharge point. The water remained clear at this time. (9/21/05)





**115kV (Bethel Educational Park):** Photo on the left shows an erosive gully that formed at the northern portion of the ROW. The area should be restored and a check dam installed to prevent further issues. The photo on the right shows good regrowth in the ROW. (9/21/05)



Photo on the left shows the double silt fence well installed at the southern ROW caisson foundation. The photo on the right shows where an erosive gully formed under the first fence and led down to the second. The fence and gully area should be restored. (9/21/05)